WELLS MANUFACTURING
10 Sunnen Dr., St. Louis, MO 63143
telephone: 314-678-6314
fax: 314-781-2714
www.wellsbloomfield.com

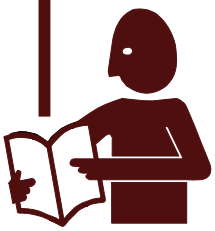
Model B40

OWNERS MANUAL for COUNTERTOP ELECTRIC CHAR-BROILERS

Models:
B40
B44
B50

includes:
INSTALLATION
USE and CARE
PARTS LISTS
WIRING DIAGRAMS

Model B50



IMPORTANT: DO NOT DISCARD THIS MANUAL

This manual is considered to be part of the appliance and is to be given to the OWNER or MANAGER of the restaurant, or to the person responsible for TRAINING OPERATORS of this appliance. Additional manuals are available from your WELLS DEALER.

THIS MANUAL MUST BE READ AND UNDERSTOOD BY ALL PERSONS USING OR INSTALLING THIS APPLIANCE. Contact your WELLS DEALER if you have any questions concerning installation, operation or maintenance of this equipment.

LIMITED WARRANTY STATEMENT

Unless otherwise specified, all commercial cooking equipment manufactured by Wells Manufacturing is warranted against defects in materials and workmanship for a period of one year from the date of original installation or 18 months from the date of shipment from our factory, whichever comes first, and is for the benefit of the original purchaser only.

THIS WARRANTY IS THE COMPLETE AND ONLY WARRANTY, EXPRESSED OR IMPLIED IN LAW OR IN FACT, INCLUDING BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE, AND/OR FOR DIRECT, INDIRECT OR CONSEQUENTIAL DAMAGES IN CONNECTION WITH WELLS MANUFACTURING PRODUCTS. This warranty is void if it is determined that, upon inspection by an authorized service agency, the equipment has been modified, misused, misapplied, improperly installed, or damaged in transit or by fire, flood or act of God. It also does not apply if the serial nameplate has been removed, or if service is performed by unauthorized personnel. The prices charged by Wells Manufacturing for its products are based upon the limitations in this warranty. Seller's obligation under this warranty is limited to the repair of defects without charge by a Wells Manufacturing factory authorized service agency or one of its sub-service agencies. This service will be provided on customer's premises for non-portable models. Portable models (a device with a cord and plug) must be taken or shipped to the closest authorized service agency, transportation charges prepaid, for service. In addition to restrictions contained in this warranty, specific limitations are shown in the Service Policy and Procedure Guide. Wells Manufacturing authorized service agencies are located in principal cities. This warranty is valid in the United States and Canada and void elsewhere. Please consult your classified telephone directory, your foodservice equipment dealer or contact:

Wells Manufacturing
10 Sunnen Dr., St. Louis MO 63143 USA
phone (314) 678-6314 or fax (314) 781-2714

for information and other details concerning warranty.

SERVICE POLICY AND PROCEDURE GUIDE and ADDITIONAL WARRANTY EXCLUSIONS

1. Resetting of safety thermostats, circuit breakers, over load protectors, and/or fuse replacements are not covered by this warranty unless warranted conditions are the cause.
2. All problems due to operation at **voltages or phase other than specified on equipment nameplates are not** covered by this warranty. Conversion to correct voltage and/or phase must be the customer's responsibility.
3. All problems due to **electrical connections not made in accordance with electrical code requirements and wiring diagrams** supplied with the equipment are **not** covered by this warranty.
4. Replacement of items subject to normal wear, to include such items as knobs, light bulbs; and, normal maintenance functions including adjustments of thermostats, adjustment of micro switches and replacement of fuses and indicating lights are not covered by warranty.
5. Damage to electrical cords and/or plug due to exposure to excessive heat are **not** covered by this warranty.
6. Full use, care, and maintenance instructions supplied with each machine. Noted maintenance and preventative maintenance items, such as servicing and cleaning schedules, are customer responsibility. Those miscellaneous adjustments noted are customer responsibility. Proper attention to preventative maintenance and scheduled maintenance procedures will prolong the life of the appliance.
7. Travel mileage is limited to **sixty (60) miles** from an Authorized Service Agency or one of its sub-service agencies.
8. All labor shall be performed during regular working hours. Overtime premium will be charged to the buyer.
9. All genuine Wells replacement parts are warranted for ninety (90) days from date of purchase on non-warranty equipment. This parts warranty is limited only to replacement of the defective part(s). **Any** use of **non-genuine** Wells parts completely **voids any warranty.**
10. Installation, labor, and job check-outs are not considered warranty and are thus **not** covered by this warranty.
11. Charges incurred by delays, waiting time or operating restrictions that hinder the service technician's ability to perform service are **not** covered by warranty. This includes institutional and correctional facilities.

SHIPPING DAMAGE CLAIM PROCEDURE

NOTE: For your protection, please note that equipment in this shipment was carefully inspected and packaged by skilled personnel before leaving the factory. Upon acceptance of this shipment, the transportation company assumes full responsibility for its safe delivery.

IF SHIPMENT ARRIVES DAMAGED:

1. **VISIBLE LOSS OR DAMAGE:** Be certain that any visible loss or damage is noted on the freight bill or express receipt, and that the note of loss or damage is signed by the delivery person.
2. **FILE CLAIM FOR DAMAGE IMMEDIATELY:** Regardless of the extent of the damage.
3. **CONCEALED LOSS OR DAMAGE:** if damage is unnoticed until the merchandise is unpacked, notify the transportation company or carrier immediately, and file "CONCEALED DAMAGE" claim with them. This should be done within fifteen (15) days from the date the delivery was made to you. Be sure to retain the container for inspection.

Wells Manufacturing cannot assume liability for damage or loss incurred in transit. We will, however, at your request, supply you with the necessary documents to support your claim.

161 2M-303672 OpManual for Countertop Electric Charbroilers

TABLE OF CONTENTS

WARRANTY	xi
SPECIFICATIONS	1
FEATURES & OPERATING CONTROLS	2
PRECAUTIONS & GENERAL INFORMATION	4
AGENCY LISTING INFORMATION	4
INSTALLATION	5
OPERATION	7
SUGGESTED COOKING TIMES	9
CLEANING INSTRUCTIONS	10
TROUBLESHOOTING SUGGESTIONS	11
EXPLODED VIEW & PARTS LIST	12—17
WIRING DIAGRAM	18
PARTS & SERVICE	25
CUSTOMER SERVICE DATA	25

Thank you for purchasing this Wells Manufacturing appliance.

Proper installation, professional operation and consistent maintenance of this appliance will ensure that it gives you the very best performance and a long, economical service life.

This manual contains the information needed to properly install this appliance in a manner which will ensure its optimum performance.

SPECIFICATIONS

MODEL	ELEMENT	VOLTS	KW	AMPS PER LEG 3Ø				AMPS	POWER
				L1	L2	L3	NEUT.	1Ø	CORD
B40	SINGLE ASSEMBLY	208	5.5	12.9	12.9	22.4	N/A	26	OPTIONAL NEMA 6-30P
		240	5.5	11.2	11.2	19.4	N/A	22.5	
*B40EU		380-415	5.5	7.6	7.6	7.6	N/A		
B44	SINGLE ASSEMBLY	208	5.5	11.5	22.4	14.4	N/A	26	NOT SUPPLIED
		240	5.5	10	19.5	12.5	N/A	22.5	
*B44EU		380-415	5.5	7.6	7.6	7.6	N/A	-	
B50	DUAL ASSEMBLIES	208	11	30	30	30	N/A	-	NOT SUPPLIED
		240	11	26	26	26	N/A	45	
*B50EU		380-415	11	15	15	15	N/A		
* for export model, also refer to *European Operation Manual…*, p/n 2M-301500									

DIMENSIONS				MINIMUM CLEARANCES			
MODEL	HIGH w/4" LEGS	WIDE	DEEP	BACK	SIDE	BOTTOM	TOP
B40	15-3/8" (39 CM)	24-3/4" (62.7 CM)	23-1/2" (59.7 CM)	6" (15.2 CM)	7" (17.8 CM)	4" (10.2 CM)	21" (53.3 CM)
B44		19-7/16" (49.4 CM)	29-9/16" (75.1 CM)				30" (76.2 CM)
B50		36-1/2" (92.7 CM)					

FEATURES & OPERATING CONTROLS

FEATURES & OPERATING DEFINITIONS	
ITEM	**COMMENT**
TEMPERATURE CONTROL	The char-broiler is INFINITE SWITCH CONTROLLED. Power is applied to the heating elements based on the control knob position and the amount of energy used.
INDICATOR LIGHT	Light will glow when the infinite switch is in any position other that OFF.
HEATING ELEMENT	The char-broiler element assembly may be raised for cleaning, or to add water to the drip pan. It is held the "up" position by a support rod which automatically engages as the element is raised.
GRATE	The grate is designed to protect the individual elements from food contact and spatula abrasion, resulting in prolonged element life and reduced carbonization. The grate is easily removed for cleaning.
	IMPORTANT: B-40 grate mounts above the element. B-44 and B-50 grates can mount above or below the elements. Always remove a top-mounted grate before lifting the element assembly.
ELEMENT SUPPORT ROD	Hold element assembly in up position. Engages automatically when the element assembly is raised. The heavy-duty removable drip pan is located under the element assembly. The drip pan catches food particles and grease drippings
	IMPORTANT: Remember to dis-engage the support rod before lowering element assembly.
DRIP PAN	**IMPORTANT:** DO NOT pour water over elements to refill drip pan.
	During broiler operation. Maintain 2 inches of water in the drip pan at all times during operation of the broiler. The drip pan is easily removed for cleaning.
DATA PLATE	Gives manufacturer, make, model and serial number. Also voltage and phase information, and agency approvals.
ADJUSTABLE LEGS	The char-broiler is equipment with adjustable 4" legs.
	Legs allow for:
	a. leveling the broiler
	b. ventilation around the broiler, and
	c. cleaning the broiler
	The supplied legs MUST be properly installed before the broiler is place into operation.

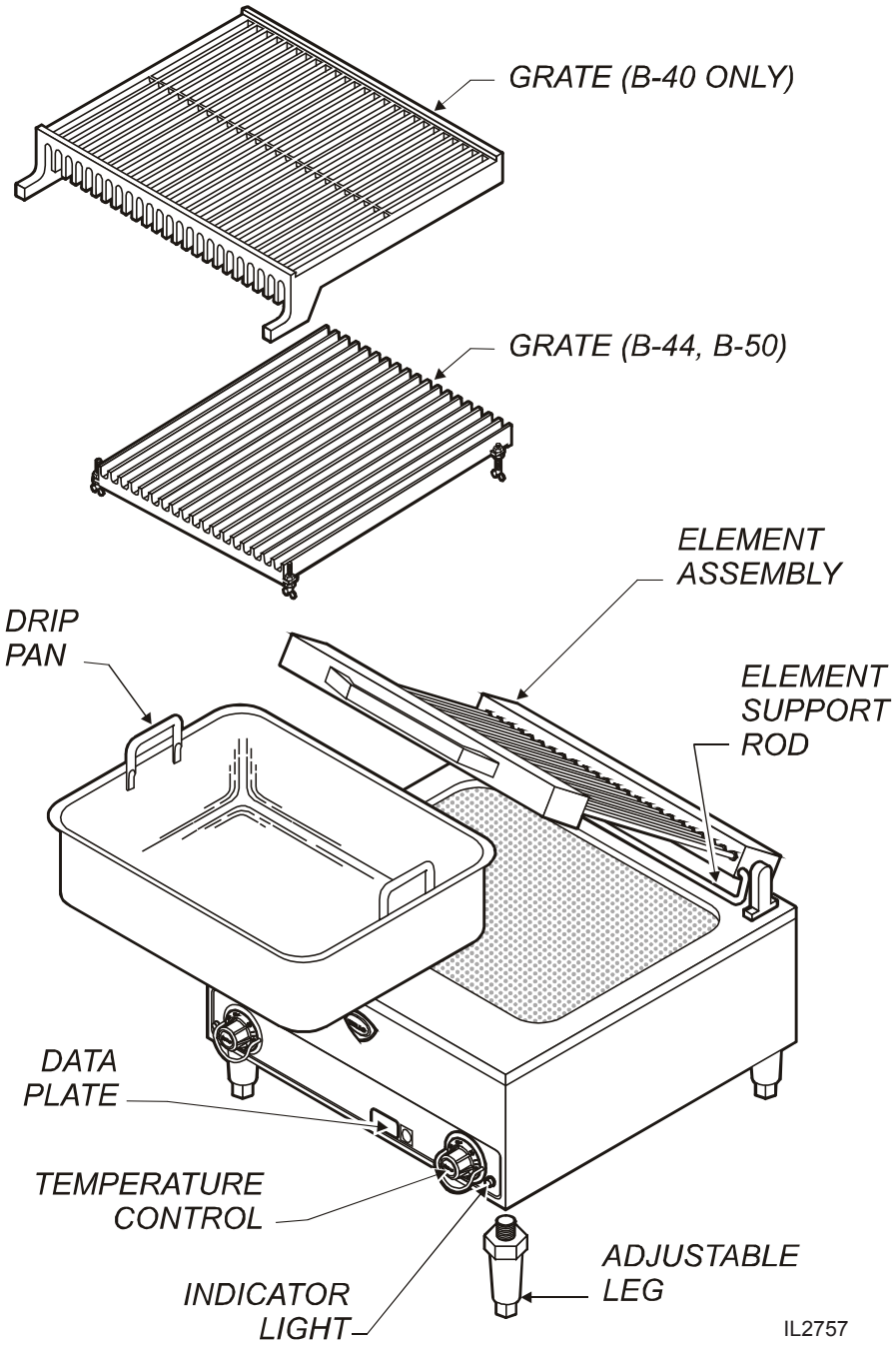


Fig. 1 Countertop Electric Charbroiler

PRECAUTIONS AND GENERAL INFORMATION

WARNING:
Electric Shock Hazard

All servicing requiring access to non-insulated electrical components must be performed by a factory authorized technician.

DO NOT open any access panel which require the use of tools. Failure to follow this warning can result in severe electrical shock.

CAUTION:
Risk of Damage

DO NOT connect or energize this appliance until all installation instructions are read and followed. Damage to the appliance will result if these instructions are not followed.

Broilers are intended for use to cook food products for human consumption. No other use is recommended or authorized by the manufacturer or its agents.

Broilers are intended for use in commercial establishments, where all users are familiar with the appliance limitations, use and associated hazards. Operating instruction and warnings must be read and understood by all operators and users.

Do not submerge broilers in water. Do not splash, or pour water onto controls, control panels or wiring.

Disconnect the broiler from electrical power before performing any service or maintenance.

Allow drip pan to cool before removing from broiler. Do not operate broiler without the drip pan installed. Do not operate the broiler without 2 inches of water in the drip pan.

Any parts replacement, maintenance procedure or servicing procedure requiring the use of tools must be performed by an Authorized Service Agency.

Any troubleshooting guides, component view, parts lists or installation guides provided with this equipment are intended for the use of the qualified technical personnel only.

Except where otherwise noted, this piece of equipment is made in the USA and has American sizes on hardware.

This manual should be considered a permanent part of this appliance. This manual and all supplied instructions, diagrams, schematics, parts break downs, notices and labels must remain with the appliance if it sold or moved to another location.

AGENCY LISTING INFORMATION

NSF STD 4

E6070 E6070

EXPORT MODELS ONLY

This appliance conforms to NSF Standard 4 for sanitation only if installed in accordance with the supplied Installation Instructions.

This appliance is c UL and UL Listed under E6070.

Refer to installation instructions included with the broiler for Underwriters Laboratories conditions of acceptability, electrical requirements and other installation concerns.

Export versions only of this appliance meet CE standards.

UNPACKING & INSPECTION

Carefully remove the appliance from the carton. Remove all protective plastic film, packing materials and accessories from the appliance before connecting electrical power or otherwise performing any installation procedure.

Carefully read all instructions in this manual and the Installation Instruction Sheet packed with the appliance before starting any installation.

Read and understand all labels and diagrams attached to the appliance.

Carefully account for all components and accessories before discarding packing materials. Store all accessories in a convenient place for later use.

NOTE: DO NOT discard the carton or other packing materials until you have inspected the appliance for hidden damage and tested it for proper operation. Refer to *SHIPPING DAMAGE CLAIM PROCEDURE* on the inside front cover of this manual.

SETUP

Setup the appliance only on a firm level surface. Non-combustible material (e.g. metal, terrazzo) is recommended.

Supplied 4” legs must be properly installed and the broiler leveled. (See Fig. 2) Move the broiler carefully to avoid damage to the legs.

Refer to the Installation Instruction Sheet for required clearances. Maintain required clearances between the appliance and adjacent combustible and non-combustible surfaces.

Sufficient overhead clearance must be provided to allow the element assembly to be raised. Refer to the Installation Instruction Sheet for required clearances.

Install drip pan and grate prior to heating and using broiler.

Avoid storing flammable or combustible materials near the appliance. This includes gasoline and other fuels, mops, rags and wrapping paper.

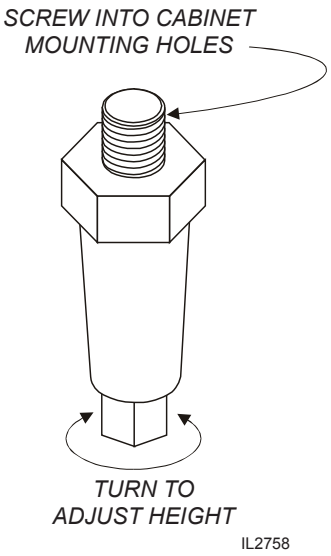


Fig. 2 Adjustable Leg

WARNING:
Risk of personal injury

Installation procedures must be performed by a qualified technician with full knowledge of all applicable electrical codes. Failure can result in personal injury and property damage.

CAUTION:
Electrical Shock Hazard

The broiler must be electrically grounded. Connect the terminal marked "GND" or "⏚" to a suitable building ground.

IMPORTANT:

Contact a licensed electrician to install and connect electrical power the broiler.

Electrical installation must be performed by a licensed electrician in compliance with all local ordinances and code requirements.

IMPORTANT:

Damage due to being connected to the wrong voltage or phase is NOT covered by warranty.

ELECTRCAL HOOK-UP

Refer to the nameplate. Verify the electrical service power. Voltage and phase must match the nameplate specifications. Connecting the griddle to the wrong voltage can severely damage the unit or cause noticeable decreased performance.

Use copper wire suitable for a minimum of 90°C for electrical supply connections.

Broilers are factory wired three-phase (3Ø). For single-phase (1Ø) wiring, refer to the wiring diagram attached to the broiler. Conversion to 1Ø must be performed by a licensed electrician.

This broiler is not fused. Protect the circuit with properly sized fuses or circuit breaker.

An electrical disconnect must be installed readily accessible to the operator of the broiler.

PREPARE THE CHAR-BROILER FOR USE

When using the broiler for the first time, wipe the entire unit with a clean damp cloth or sponge and mild detergent. Rinse thoroughly clean water. Dry with a soft clean cloth.

Remove the GRATE and raise the ELEMENT ASSEMBLY.

Install the DRIP PAN and add 2 2 inches (5cm) of tap water.

Release the ELEMENT SUPPORT ROD by lifting the element assembly slightly, then pulling the lower portion of the support rod forward. Lower the ELEMENT ASSEMBLY gently.

MODEL B-40: Grate must be installed ABOVE elements.

Install the GRATE, front edge first. The TANGS of the grate go DOWN and point toward the FRONT. The grooves on the underside of the grate align with the elements. The rear edge of the grate can be lowered until it rests firmly on the elements.

MODELS B-44 and B-50: Grate(s) can be installed above or below the elements.

ABOVE: Gently lower grate over elements. The end with flush tabs goes toward the front.

BELOW: Install one wing bolt in each tab. The notch in the wing rests on the lip of the drip pan. The end with flush tabs must go toward the front Adjust the wing bolts so that , when the element assembly is lowered, the top of the element is 1/4" (6mm) below the top of the grate fins.

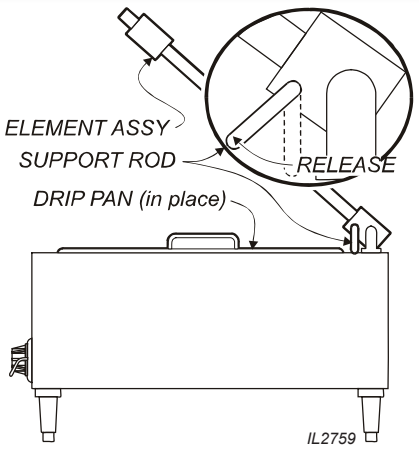


Fig. 3 ELEMENT SUPPORT ROD

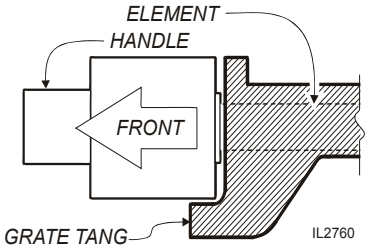


Fig. 4 B-40 GRATE INSTALLATION

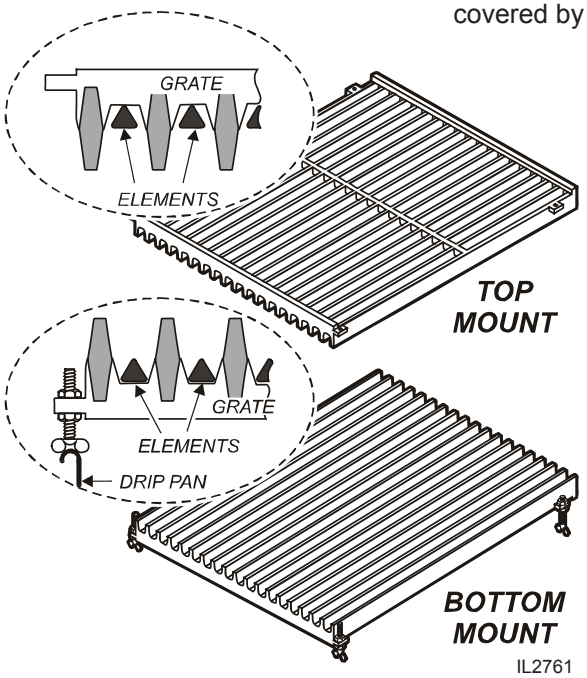


Fig. 5 B-44 and B-50 GRATE INSTALLATION

CAUTION:
Hot Surface

Exposed surfaces can be hot to the touch and may cause burns.

IMPORTANT:
DO NOT attempt to raise the element assembly without first removing the grate. Damage to the hinges will result. Such damage is **NOT** covered by warranty.

IMPORTANT:
Allow drip pan to cool before removing from the broiler. DO NOT operate the broiler without the drip pan installed. DO NOT operate the broiler without 2" (5cm) of water in the drip pan.

IMPORTANT:
DO NOT attempt to lower the element assembly without first releasing the support rod. Damage to the hinges will result. Such damage is NOT covered by warranty.

CAUTION:

Hot Surface

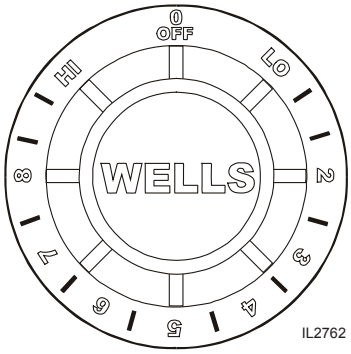


Fig. 6 TEMPERATURE CONTROL

Exposed surfaces can be hot to the touch and may cause burns.

IMPORTANT: DO NOT POUR WATER OVER ELEMENTS TO REFILL PAN.

DO NOT splash or pour water onto controls, control panels or wiring.

TEMPERATURE CONTROLS

Each section of the broiler is equipped with an individual temperature control. The desired temperature is controlled by rotating the TEMPERATURE CONTROL KNOB. Any time the control is turned "ON", the adjacent indicator light will glow. Each section of the broiler may be set to a different temperature setting.

"OFF" removes power from the element., allowing the element to cool. Use OFF to turn the broiler off at the end of the cooking day.

"LO" is the lowest temperature settings. Use LO for stand-by operation.

"2" thru "8" are temperature settings. Higher number indicate higher temperature.

"HI" is a continuous ON setting. Use HI for pre-heating the broiler.

USING THE CHAR-BROILER

Pre-Heat the broiler ten (10) minutes by turning the TEMPERATURE CONTROL to "HI".

After the pre-heat period, turn the TEMPERATURE CONTROL to the desired setting (refer to the Broiler Chart at right for recommended settings).

After every order, use the brush provided to brush any remaining food particles from grate and elements. Keeping the cooking surfaces clean will help in maintaining food taste.

Visually check the water level in the drip pan during operation. Add water as required to maintain 2" (5cm) water depth in the drip pan.

BROILER CHART
RECOMMENDED COOKING TIMES AND DIAL SETTINGS

NOTE: The times and dial settings in this chart are suggestions only. Your own experience with your own menu items will be your best guide to achieving the best food product.

PRODUCT Condition	THICKNESS	COOKING SETTING	DIAL	TIME Minutes Total
BEEF Frozen	1/2”	Rare	8	4 -6
“	1/2”	Medium	8	7 - 9
“	3/4”	Rare	7	7 - 9
“	3/4”	Medium	7	8 - 10
“	1”	Rare	7	12 - 14
“	1”	Medium	7	14 - 16
“	1-1/4”	Rare	6	23 - 25
“	1-1/4”	Medium	6	25 - 27
BEEF Non-Frozen	3/4”	Rare	HI	4 - 6
	3/4”	Medium	HI	5 - 7
	1”	Rare	HI	7 - 9
	1	Medium	HI	8 - 10
	1-1/4”	Rare	HI	12 - 14
	1-1/4”	Medium	HI	13 - 15
	1-1/2”	Rare	HI	14 - 16
	1-1/2”	Medium	HI	18 - 20

CLEANING INSTRUCTIONS

CAUTION:
Electric Shock Hazard

Disconnect appliance from electric power before cleaning.

CAUTION:
Burn Hazard

Allow appliance to cool completely before cleaning.

CAUTION:
Electric Shock Hazard

Do not submerge appliance in water.

IMPORTANT: DO NOT spill or pour water into controls, control panel or wiring.

DO NOT submerge broiler in water. Damage to internal components will occur. Damage to internal components from water damage is not covered by warranty.

PREPARATION

Turn both temperature control knobs OFF.

Allow broiler to cool completely.

Disconnect broiler from electric power.

FREQUENCY

Daily.

TOOLS

Steel Brush with scraper

Plastic Scouring pad, Soft-Bristled Fiber Brush

Mild Detergent, Non-Abrasive Cleanser

Clean Soft Cloth / Sponge

CLEANING

1. Remove the grate from the broiler. Clean grate
   a. Use the supplied steel brush with scraper to remove food particles and residue from grate surfaces.
   b. Grate may be washed in sink or dishwasher.
   c. Dry the grate and apply a light coating of cooking oil.
2. Raise the element assembly until it latches. Remove and clean the drip pan:
   a. Stubborn food particles maybe removed with a plastic scouring pad.
   b. Drip pan may be washed in a sink or dishwasher.
3. Clean the element assembly:
   a. Use a soft-bristled fiber brush to remove any remaining food particles from the elements.
   b. Clean the element rods with a soft damp cloth or sponge and mild detergent. Rinse by wiping with a soft cloth moistened with clean water. Dry with a soft cloth.
4. Clean broiler cabinet:
   a. Use a plastic scouring pad to remove any remaining food particles from the cabinet.
   b. Clean the cabinet with a soft damp cloth or sponge and mild detergent. Rinse by wiping with a soft cloth moistened with clean water. Dry with a soft cloth.
5. Reassemble broiler:
   a. Reinstall drip pan.
   b. Unlatch element support rod and carefully lower the element assembly.
   c. Reinstall the grate.

Procedure complete

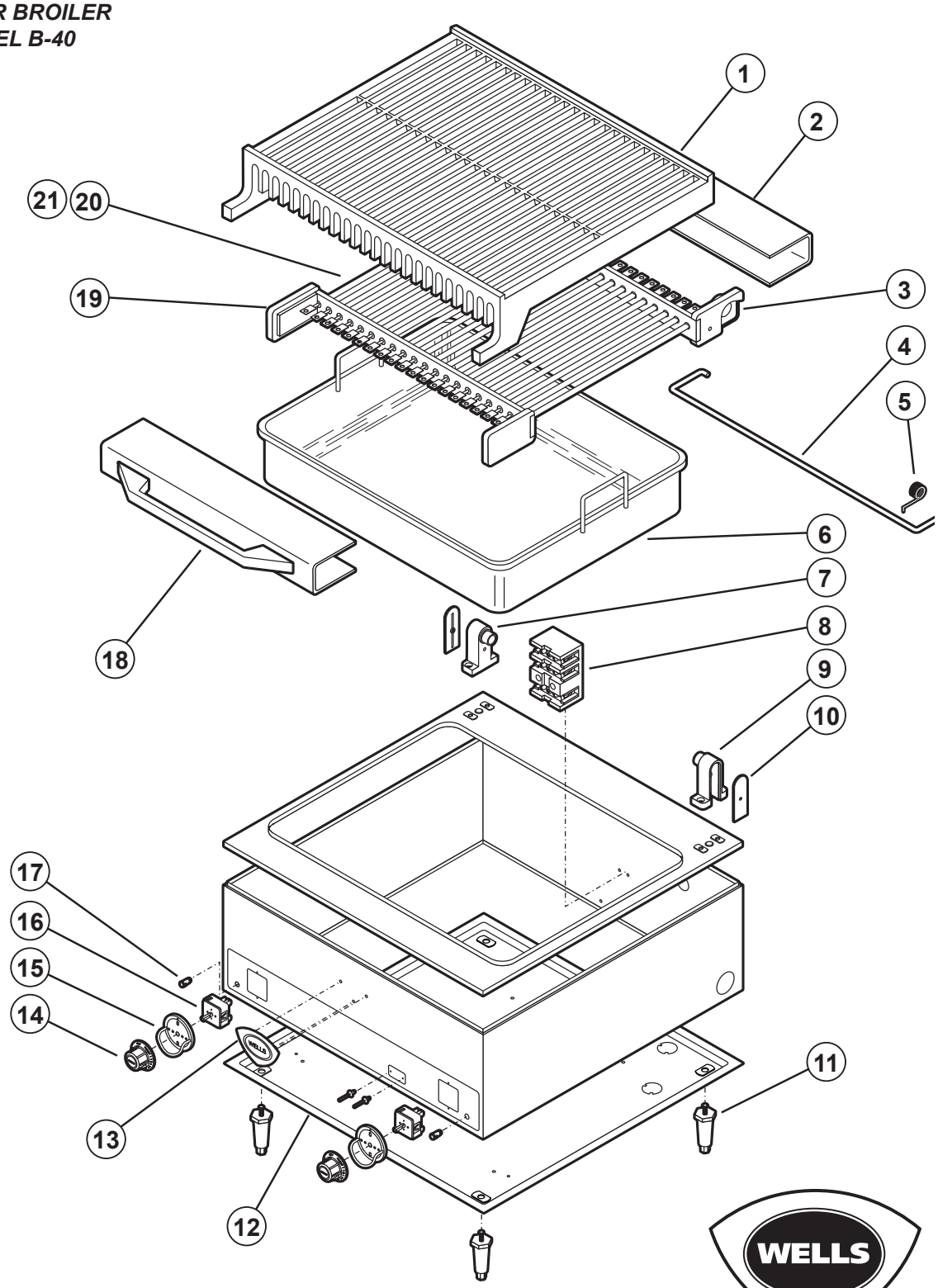
TROUBLESHOOTING SUGGESTIONS

SYMPTON	POSSIBLE CAUSE	SUGGESTED REMEDY
Won't heat - - no indicator lights	Not plugged in, or Circuit breaker tripped.	Check plug Check / reset circuit breaker
One or more section won't heat—or not hot enough	Temperature control not set	Set temperature control knob to desired temperature
	240V unit run on 208V	Verify proper voltage
	Damaged component or wiring	Contact an Authorize Wells Service Agency for repairs
One or more section too hot	Temperature control not set	Set temperature control knob to desired temperature
	208V unit run on 240V	Verify proper voltage
	Damaged component or wiring	Contact an Authorized Wells Service Agency for repairs
Element assy loose, or difficult to raise or lower	Damaged hinge (see page 7 for precautions)	Contact an Authorized Wells Service Agency for repairs
Element assy does not latch in up position	Damaged support rod assembly	Contact an Authorized Wells Service Agency for repairs

There are no user-serviceable components in this unit.
In all instances of damage or malfunction, contact your Authorized Wells Service Agency for repairs.

EXPLODED VIEW & PARTS LIST

COUNTERTOP ELECTRIC
CHAR BROILER
MODEL B-40



Model: B40 Electric Charbroiler

PL161

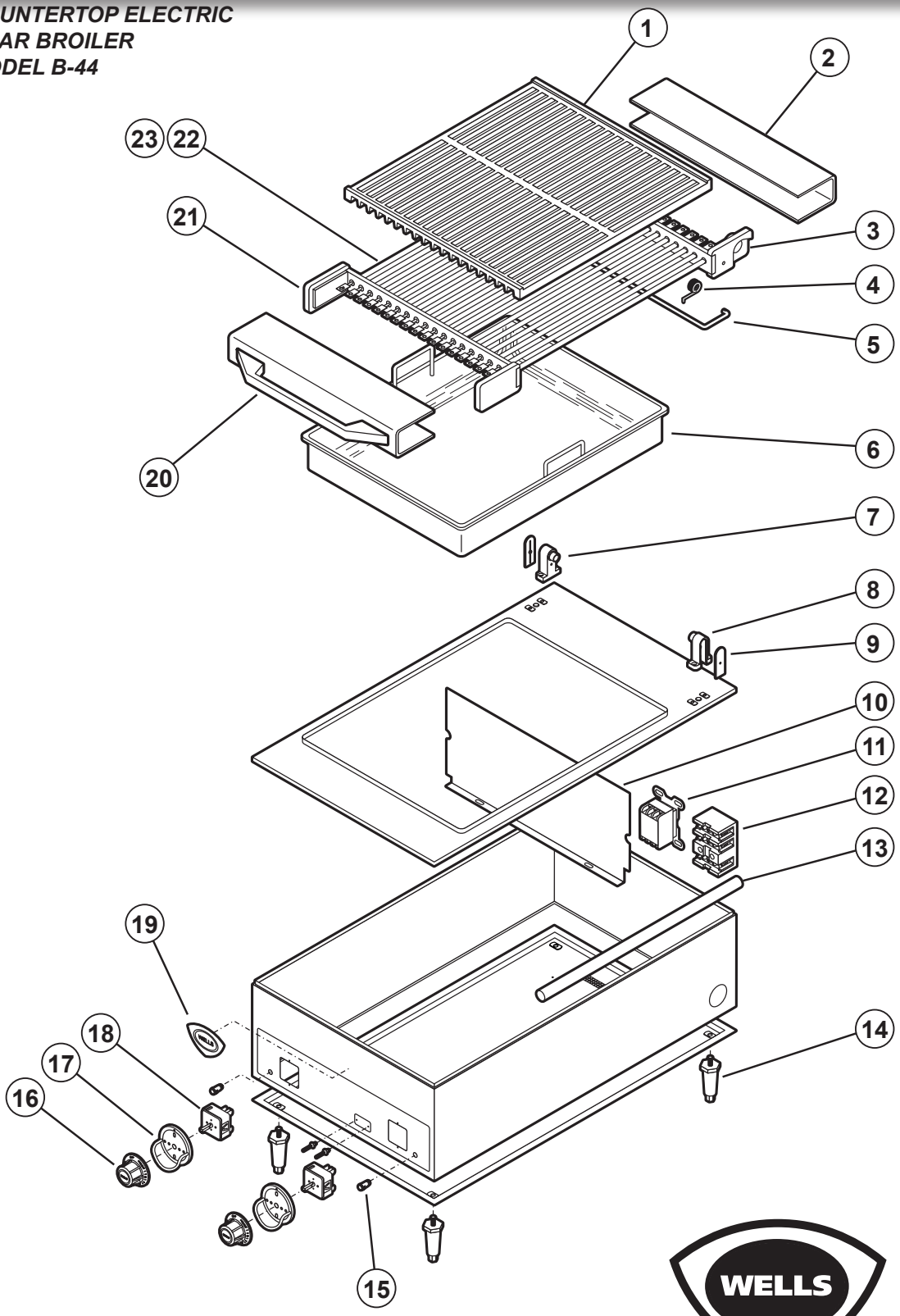
IL1728 Rev. B 4/20/12

161 2M-303672 OpManual for Countertop Electric Charbroilers

B40 Electric Charbroiler				
Fig No	**Part No**	**Qty**	**Description**	**Application**
1	WS-21707	1	BROILER GRATE B40/B406	
2	H6-32728	1	COVER RR ELEM ASS	
3	WS-57509	1	CASTING ASSY ELEM REAR	
4	WS-52729	1	ROD SUPPORT B40 406	
5	2P-32428	1	SPRING SUPPORT ROD	
6	H6-35594	1	PAN GREASE B40	
7	2A-32840	1	PIVOT BRKT LF SIDE B40	
8	2E-37465	1	TERM BLOCK 3 POLE 85AMP	208/240V
	2E-40310		TERM BLOCK 4POLE 75AMP	B40-400V
9	2A-32841	1	PIVOT BRKT RT SIDE B40	
10	2A-32806	2	COVER PIVOT BRKT	
11	2A-Z0314	4	FEET 4” DIE CAST.	
	2A-30586		FEET ADJ 4” GRAY PLASTIC	
12	H6-Z12082	2	BASE, SHELL	
13	2M-300534	1	TRADEMARK DOMED LABEL	
14	2R-30371	2	KNOB ASSY WARMERS	
15	D8-30256	2	TRIM RING ASSY	
16	2E-34593	2	SW INF 240V B CAM 13/16S	
17	2J-30516	2	LIGHT SIGNAL AMBER M3938P	
18	WS-500686	1	KIT HANDLE B40/B406	
	2R-300666		HANDLE BROILERS DIE CASET	
19	WS-57508	1	CASTING ASSY ELEM FRONT	
20	WS-52722	1	ELEM ASSY 208V B40 / B406	
	WS-52723		ELEM ASSY 240V B40 / B406	
	DD-503811		ELEM ASSY B40EU 220/380V	B40-400V
21	WS-50007	24	ELEM 104V 225W BROILER	B40-208V
	WS-50005		ELEM 120V 225W BROILER	B40-240V
	2N-303805		ELEM 110V 225W BROILER	B40-400V

EXPLODED VIEW & PARTS LIST

COUNTERTOP ELECTRIC
CHAR BROILER
MODEL B-44



Model: B44 Electric Charbroiler

PL161

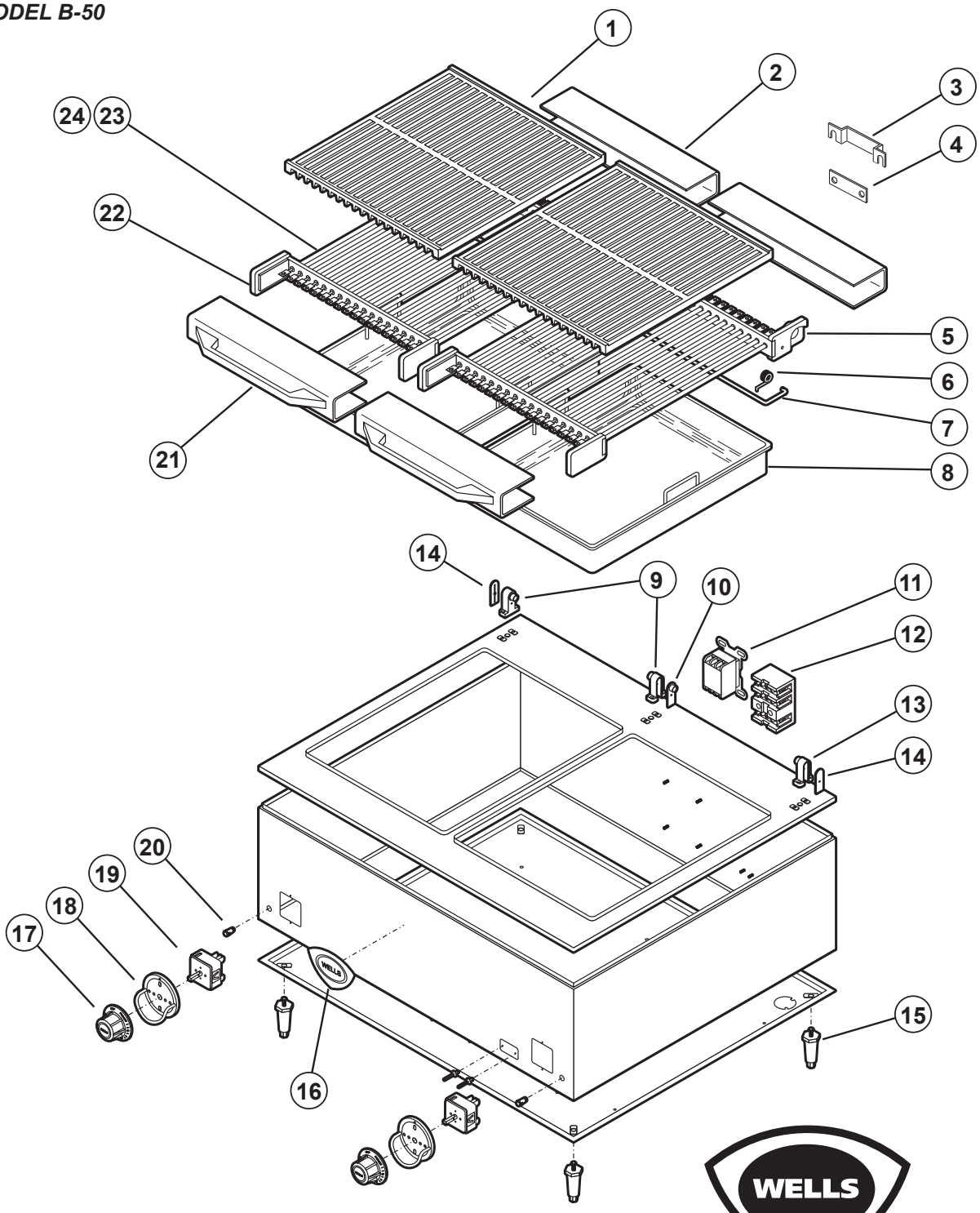
IL1729 Rev. A 4/14/09

161 2M-303672 OpManual for Countertop Electric Charbroilers

B44 Electric Charbroiler				
Fig No	**Part No**	**Qty**	**Description**	Application
1	H6-38623	1	GRATE AS RECD BROILER	
2	H6-32740	1	COVER RR ELEM ASSY B44	
3	WS-57507	1	CASTING ASSY ELEM REAR	
4	2P-32428	1	SPRING SUPPORT ROD	
5	2A-34061	1	ROD HEAD SUUORT B44/B446	
6	H6-35593	1	PAN GREASE B44-50	
7	2A-32840	1	PIVOT BRKT LF SIDE B40	
8	2A-32841	1	PIVOT BRKT RT SIDE B40	
9	2A-32806	2	COVER PIVOT BRKT	
10	E7-37893	1	COVER ACCESS F101 ROHS	
11	2E-Z14960	1	CONTACTOR 40A 208/240COIL	
12	WS-50131	1	TERM BLK KIT 3-POLE 85AMP	208/240
	2E-4310		TERM BLOCK 4POLE 75AMP	B44-400
13	DD-52128	1	TUBING TIMER WIRES F3672	
14	2A-Z0314	4	FEET 4” DIE CAST.	
	2A-30586	4	FEET ADJ 4” GRAY PLASTIC	
15	2J-30516	2	LIGHT SIGNAL AMBER M3938P	
16	2R-30371	2	KNOB ASSY WARMERS	
17	D8-30256	2	TRIM RING ASSY	
18	2E-34593	2	SW INF 240V B CAM 13/16S	
19	2M-300534	1	TRADEMARK DOMED LABEL	
20	WS-500687	1	KIT HANDLE B44/446 B50/506	
	2R-300666	1	HANDLE BROILERS DIE CASTE	
21	WS-57506	1	CASTING ASSY ELEM FRNT	
22	WS-52737	1	ELEM ASSY 208V BASE B44, B50	
	WS-52738		ELEM ASSY 240V B44,50 BASE	
	H6-303816		ELEMENT ASSY B44 EU	B44-400
23	WS-50020	18	ELEM 104V 300W BROILER	
	WS-50019		ELEM 115V 300W BROILER	
	2N-303802UL		ELEM 110W 300W BROILER	B44-400
NI	2E-35635	2	CAPCTR, .015	

EXPLODED VIEW & PARTS LIST

COUNTERTOP ELECTRIC
CHAR BROILER
MODEL B-50



Model: B50 Electric Charbroiler

PL161

IL1730 Rev. C 7/27/11

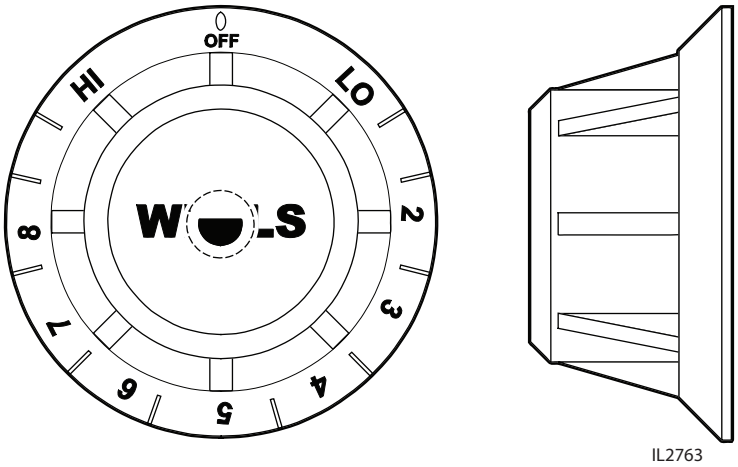
161 2M-303672 OpManual for Countertop Electric Charbroilers

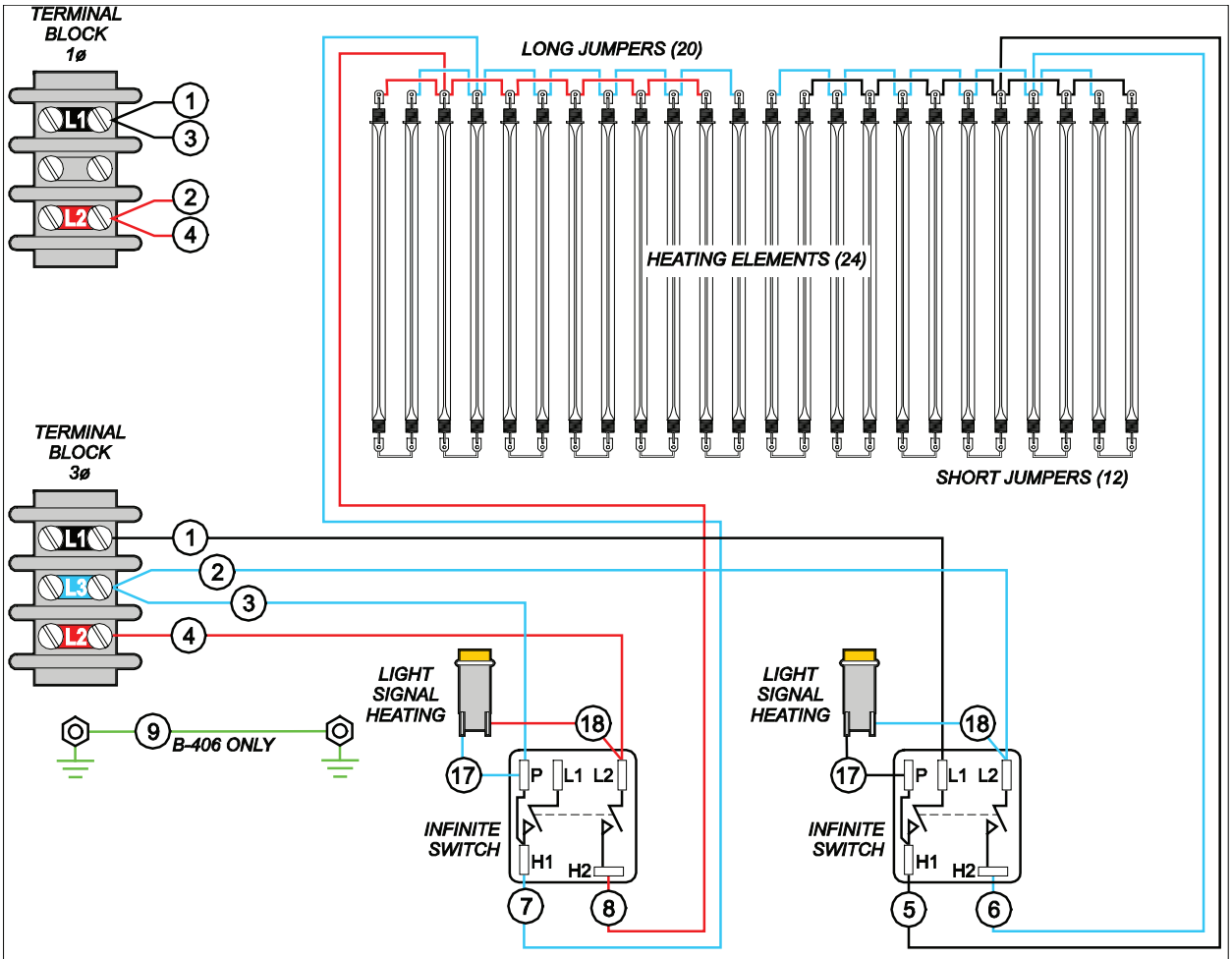
B50 Electric Charbroiler			
Fig No	**Part No**	**Qty**	**Description**
1	H6-38623	2	GRATE MACH BROILER ASSY
2	H6-32740	2	COVER RR ELEM ASSY B44, B50
3	2E-30001	30	JUMPER, ELEMENT LONG
4	2E-30002	18	JMPR-ELEMENT,1-1/4" BRLR
5	WS-57507	2	CASTING ASSY ELEM REAR
6	2P-32428	2	SPRING SUPPORT ROD
7	2A-32741	2	ROD HEAD SUPPORT ASSY
8	H6-35593	2	PAN GREASE B44-50
9	2A-32840	2	PIVOT BRKT LF SIDE B40
10	H6-33245	1	COVER DOUBLE PIVOT BRKT
11	2E-Z14960	1	CONTACTOR 40A 208/240COIL
12	WS-50131	2	TERM BLK KIT 3-POLE 85AMP
13	2A-32841	1	PIVOT BRKT RT SIDE B40
14	2A-32806	2	COVER PIVOT BRKT TUMBLED
15	2A-Z0314	4	FEET 4" DIE CAST.
	2A-30586	4	FEET ADJ 4" GRAY PLASTIC
16	2M-300534	1	TRADEMARK DOMED LABEL
17	2R-30371	2	KNOB ASSY WARMERS
18	D8-30256	2	TRIM RING ASSY
19	2E-34593	2	SW INF 240V B CAM 13/16S
20	2J-30516	2	LIGHT SIGNAL AMBER
21	WS-500687	2	KIT HANDLE B44/446 B50/506
	2R-300666		HANDLE BROILERS DIE CASTE
22	WS-57506	1	CASTING ASSY ELEM FRNT
23	WS-52737	2	ELEM ASSY 208V B44, B50
	WS-52738		ELEM ASSY 240V B44, B50
24	WS-50020	36	ELEM 104V 300W BROILER
	WS-50019		ELEM 115V 300V BROILER
NI	2E-35635	2	CAPCTR, .015
NI	2A-33038	4	FEET ADJ BROILER GRATES

EXPLODED VIEW & PARTS LIST

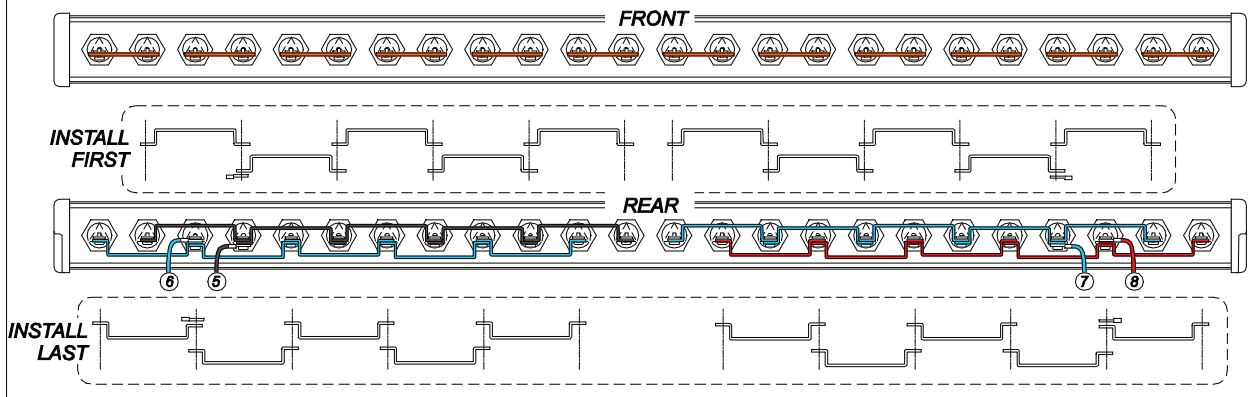
CONTROL KNOB IDENTIFICATION

All versions of the Wells Electric Char-Broiler use control knob p/n 2R-30371.





JUMPER INSTALLATION

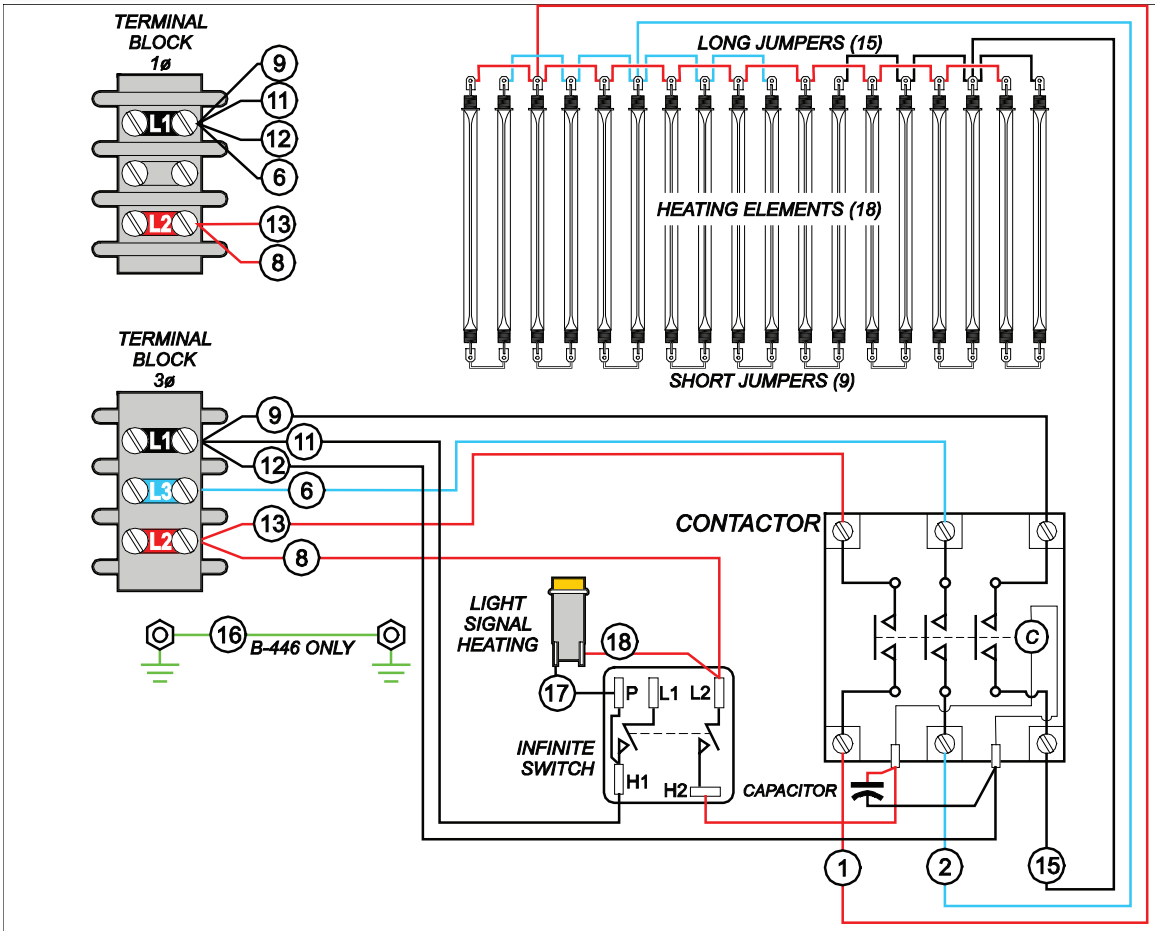


B-40 and B-406
208V, 240V

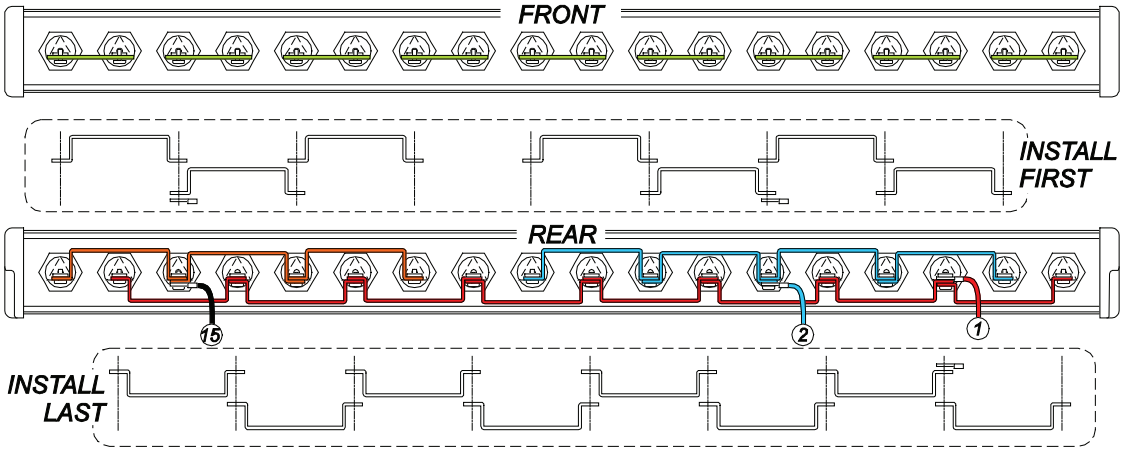
VOLTS	KW	NOMINAL AMPS PER LINE			
		AMPS 3ø			AMPS 1ø
		L1	L2	L3	
208	5.4	12.9	12.9	24.4	26.0
240	5.4	11.2	11.2	19.4	22.5

p/n 31269 issue I

WIRING DIAGRAM



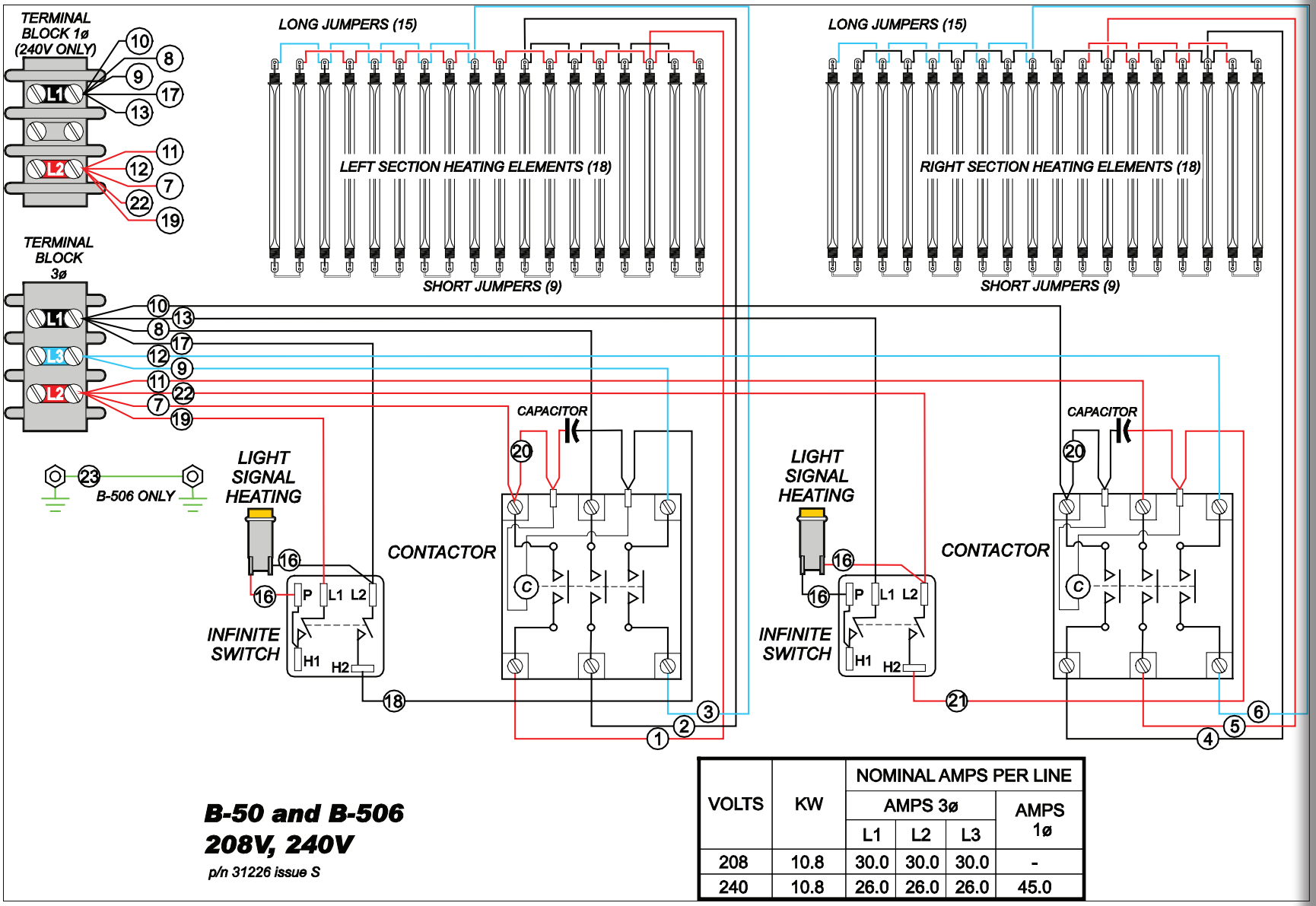
JUMPER INSTALLATION



B-44 and B-446
208V, 240V

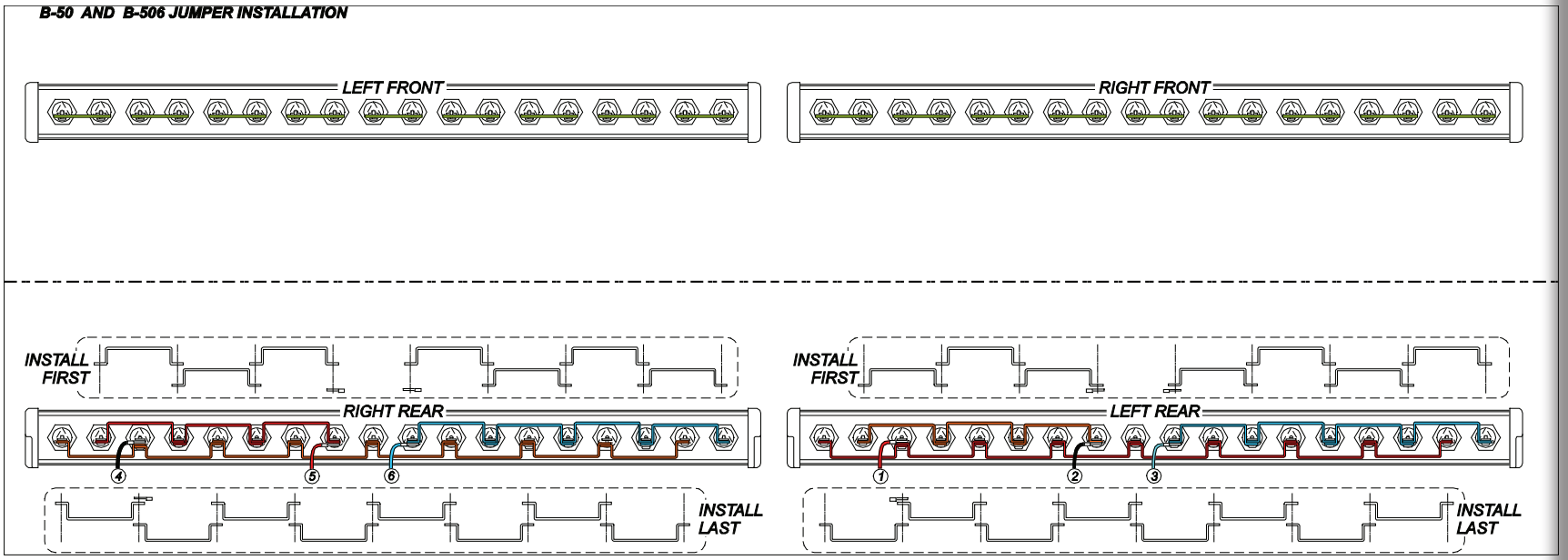
VOLTS	KW	NOMINAL AMPS PER LINE			
		AMPS 3ø			AMPS 1ø
		L1	L2	L3	
208	5.5	11.5	22.4	14.4	26.0
240	5.5	10.0	19.5	12.5	22.5

p/n 31278 issue M



B-50 and B-506
208V, 240V
p/n 31226 issue S

VOLTS	KW	NOMINAL AMPS PER LINE			
		AMPS 3ø			AMPS 1ø
		L1	L2	L3	
208	10.8	30.0	30.0	30.0	-
240	10.8	26.0	26.0	26.0	45.0


B-50 AND B-506 JUMPER INSTALLATION
LEFT FRONT
RIGHT FRONT
INSTALL FIRST
RIGHT REAR
4
5
6
INSTALL LAST
INSTALL FIRST
LEFT REAR
1
2
3
INSTALL LAST

NOTES

NOTES

DESCRIPTION	SERVICE PART NO.
CORDSET 240V 30A NEMA 6-30P, B-40, B-44	2E-35259
GREASE PAN, B-44 (1 PER UNIT) B-50 (2 PER UNIT)	H6-35593
GREASE PAN, B-40	H6-35594
LEGS, 4", METAL SET OF 4	2A-Z0314
GRATE, B-44 (1 PER UNIT) B-50 (2 PER UNIT)	H6-38623
GRATE, B-40	WS-21707
BRUSH, BROILER	2P-30013

IMPORTANT: Use only factory authorized service parts and replacement filters.

For factory authorized service, or to order factory authorized replacement parts, contact your Wells authorized service agency, or call:

Wells Manufacturing
10 Sunnen Dr.
St. Louis MO 63143 USA

Service Dept.
phone: (314) 678-6314
fax: (314) 781-2714

Service Parts Department can supply you with the name and telephone number of the WELLS AUTHORIZED SERVICE AGENCY nearest you.

CUSTOMER SERVICE DATA

please have this information available if calling for service

RESTAURANT _____ LOCATION _____

INSTALLATION DATE _____ TECHNICIAN _____

SERVICE COMPANY _____

ADDRESS _____ STATE _____ ZIP_____

TELEPHONE NUMBER (_____)_____-_____

EQUIPMENT MODEL NO. _____ EQUIPMENT SERIAL NO. _____

VOLTAGE: (check one) ☐ 208 ☐ 240 ☐ 480

CFESA
Commercial Food Equipment Service Association

Wells Bloomfield proudly supports CFESA
Commercial Food Equipment Service Association

SERVICE TRAINING - QUALITY SERVICE

CUSTOMER SATISFACTION

WELLS MANUFACTURING
10 Sunnen Dr., St. Louis, MO 63143
telephone: 314-678-6314
fax: 314-781-2714
www.wellsbloomfield.com